ABSTRACT OF THE DISCLOSURE

SYSTEM AND METHOD FOR SERVICING REQUESTS TO A STORAGE ARRAY

According to the method of the present invention, if a data read request to an unavailable particular storage medium is received from a system processor, a request servicing circuit of an adapter reconstructs the request data from data and parity data stored on other storage media in the array. However, if a data write request to an unavailable storage medium is received from the system processor, the actual data related to the data write request is stored in a temporary memory location, and the data write request is logged in a non-volatile memory. There is no built-in data redundancy in a first preferred embodiment of the present invention; thus, modified data is lost in the event of the failure of another storage medium during the update of the selected storage medium. However, a second preferred embodiment of the present invention incorporates a spare storage medium that preserves the modified data if another storage medium fails.